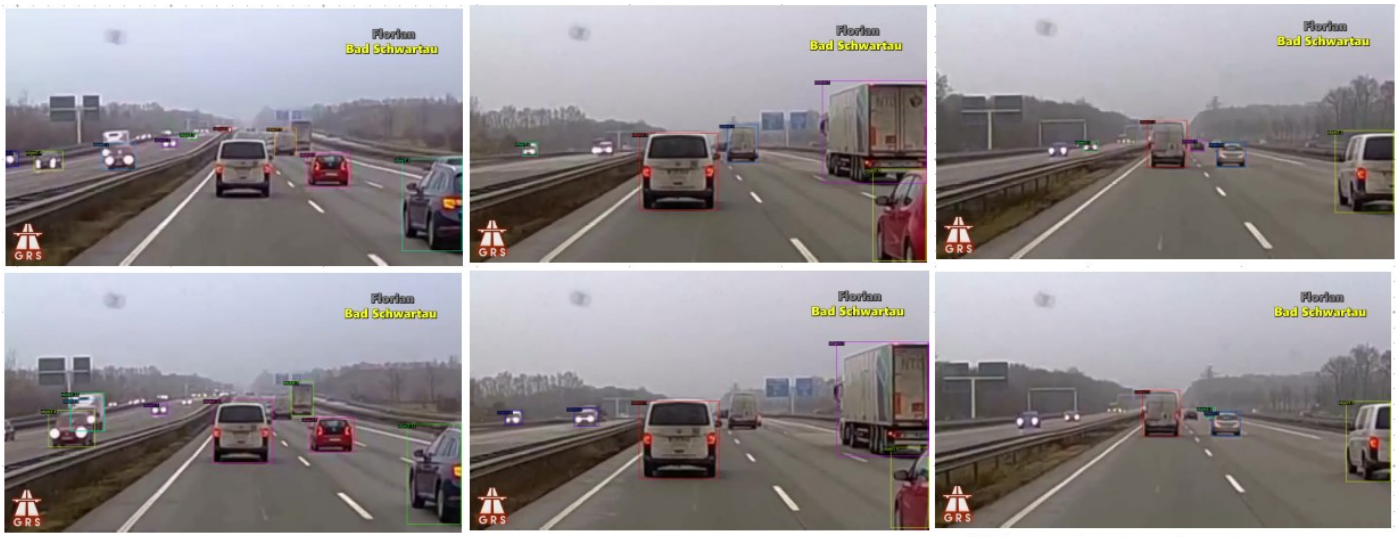
LAB III REPORT ON BUILDING AN OBJECT TRACKER

1. INTRODUCTION

We experiment with Dectectron2 a simple object tracker which detect objects on all frame of a video and afterward makes prediction from one frame to the next.

2. 2-FRAME TRACKS VISUALIZATION

We visualize a 2-frame tracks at the start, middle and end of all predictions.



2-Frame tracks at start 2-Frame tracks at middle 2-Frame tracks at end

We observe that at some instances of the frame at any of the timeline there is variation in detected objected due to frame time difference and camera-focus proximity.

3. 10-FRAME TRACKS VISUALIZATION

From the frames track above, the model, for some objects, was unable to keep track of the assigned object in consecutive frames though it label predictions are correct for detected objects in each frame.

6. REFERENCES

- Georgia Gkioxari, Advanced Course in Computer Vision, AMMI Rwanda/Ghana, 2020
- Justin Johnson, Deep Learning for Computer Vision | Object Detection and Segmentation, University of Michigan, USA, 2019
- https://github.com/facebookresearch/Detectron
- https://github.com/gkioxari/aims2020_visualrecognition/releases/download/v1.0/videoclip.zip